16b
Am

## DOORS

LABEL AND NON-LABEL

HOLLOW METAL

- ENGINEERED
- STANDARD

KALAMEIN-TIN CLAD

## FRAMES

PRESSED STEEL

- ENGINEERED
- STANDARD

## LOUVERES

- HOAL'S LEAKPROOF
- STANDARD

# *American*

*Over 55 Years of Continuous Service*

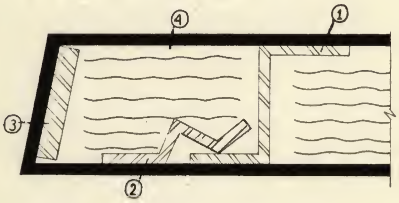
# ENGINEERED DOORS AND FRAMES

**dependability**—You get exactly what you specify when you specify "American"—this has always been our policy throughout our more than 55 years of continuous operation. You can depend on American doors and frames to be quality engineered and quality built.

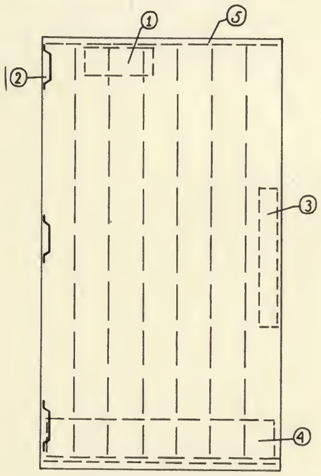
**sales engineering**—We invite you to consult our engineers, at any time, on problems of design or installation—at no cost to you.

**prompt service**—American's extensive capacity is your assurance of prompt completion and fast delivery of your order.

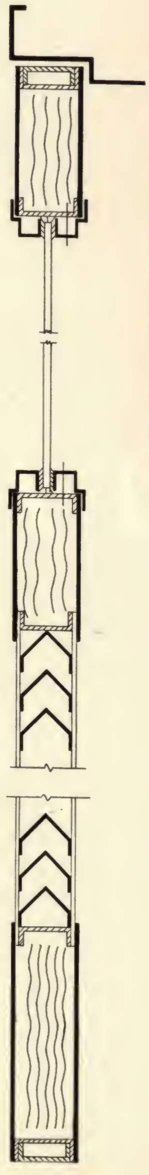
## door details



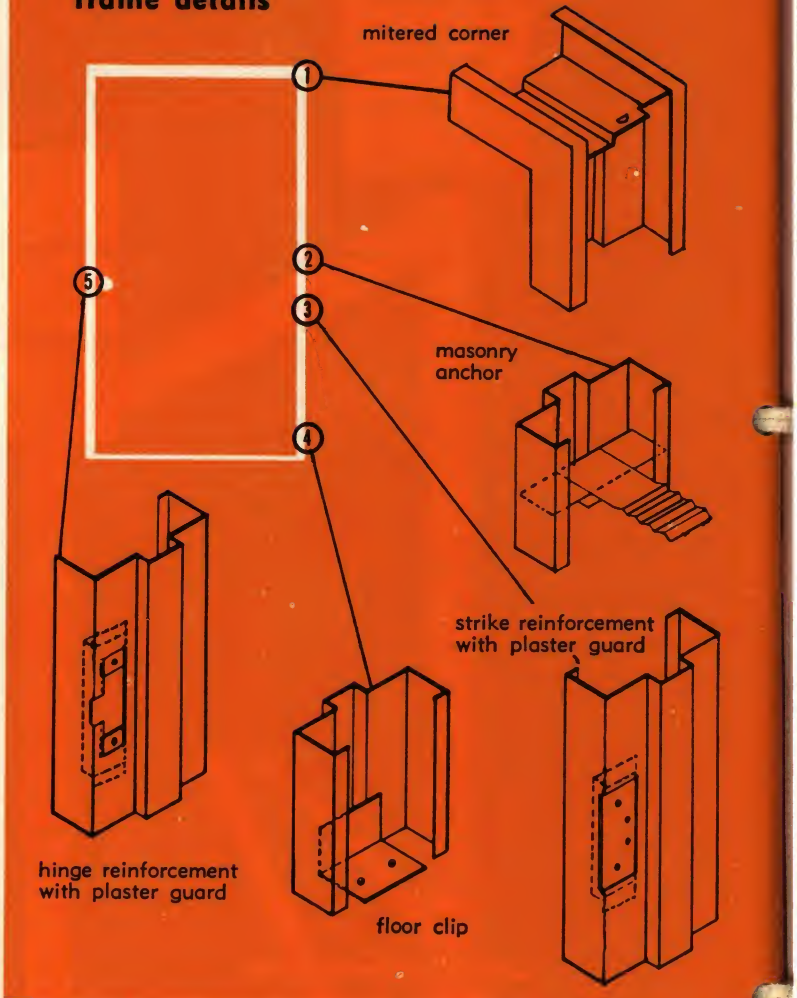
1. "Z" Stiffener, Max. 6" O.C.
2. Stiffener Clip
3. Edge Reinforcement
4. Insulation



1. Closer reinforcement
2. Hinge Reinforcement
3. Lock Reinforcement
4. Kick Plate Reinforcement
5. Top and Bottom Channel Reinforcement (closed flush when specfied)

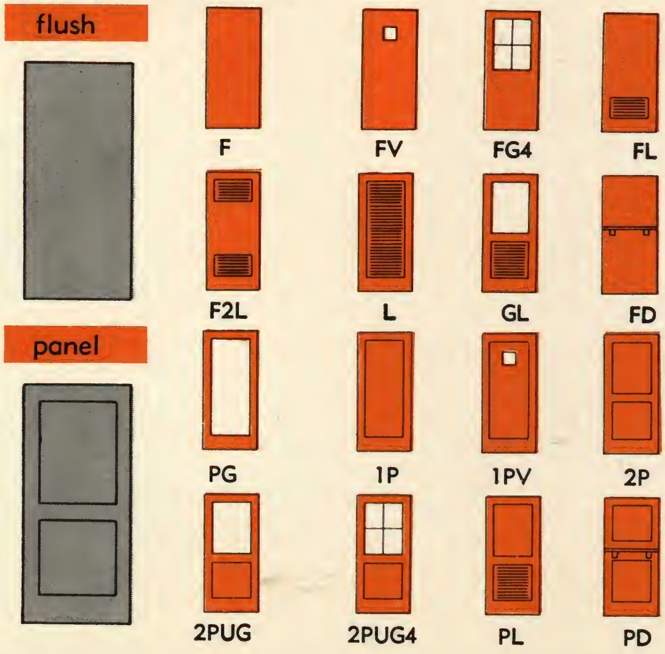


## frame details



mitered corner
①
②
③
④
⑤
masonry anchor
strike reinforcement with plaster guard
hinge reinforcement with plaster guard
floor clip

## engineered door types



## specifications

### hollow metal doors

Furnish and install hollow metal doors as manufactured by American Metal Works, Inc. of flush (or panel type) construction as indicated on drawings and specifications.

**flush type doors**—Door faces to be constructed of two formed steel sheets of not less than No. 18 U. S. Standard gauge (No. 16, 14 to 12 gauge if specified) new billet prime commercial steel, cold rolled and stretcher leveled. Doors to be rigidly reinforced inside with continuous vertical stiffeners spot welded in position and located on not to exceed 6'' centers throughout. Both edges of doors to be joined and reinforced the full height by steel channels or flat bars placed immediately inside of and welded to the door faces. Top and bottom of door to be reinforced horizontally by steel channels running the full width of door. Inside voids of door to be filled with suitable sound deadening insulation.

**panel type doors**—Construction to be of No. 18 gauge U. S. Standard (No. 16 or No. 14 gauge if specified) cold rolled and stretcher leveled prime seel for all stiles and rails with No. 20 gauge panels and molding. Stiles, top rail, and intermediate rail widths to be 5'', bottom rail width 10'', all unless specified otherwise. Panels to be separated by suitable composition board insulating material and all door stiles and rails to be filled with suitable sound deadening material.

**hardware**—All hollow metal doors shall be mortised, reinforced, drilled and tapped for mortise type template hardware at the factory. In addition reinforcement plates are to be provided for all surface applied hardware at the factory; however all drilling and tapping for such surface applied hardware shall be done in the field. All finish hardware to be applied in the field.

**finish**—Doors are to be thoroughly cleaned of all oil, grease and other impurities. Each coat of primer to be baked on finish.

**underwriters' label service**—Hollow metal doors can be furnished with labels of Underwriters' Laboratories, Inc. (Table on page 4).

### kalamein doors

Furnish and install Kalamein doors as manufactured by American Metal Works, Inc. of flush or panel type construction as indicated on drawings and specifications.

**flush type doors**—Cores to be constructed of properly seasoned kiln-dried Western red cedar, white pine or other suitable non-resinous wood free from loose or unsound knots, shakes or other imperfections. Steel covering to be No. 26 gauge minimum galvanized paint grip steel glued to the wood cores under pressure. Joint at edges of doors to be flushed with solder and ground smooth.

**panel type doors**—Construction to consist of 26 gauge minimum galvanized paint grip steel stiles and rails, die formed to insure snug fit to wood cores. Stiles and rails to be joined by hardwood dowels and glued under pressure. Seams at intersection of stiles and rails shall be flushed with solder and ground smooth. Panel cores to be constructed of ¼'' asbestos board for labeled doors and suitable composition board for non-labeled doors.

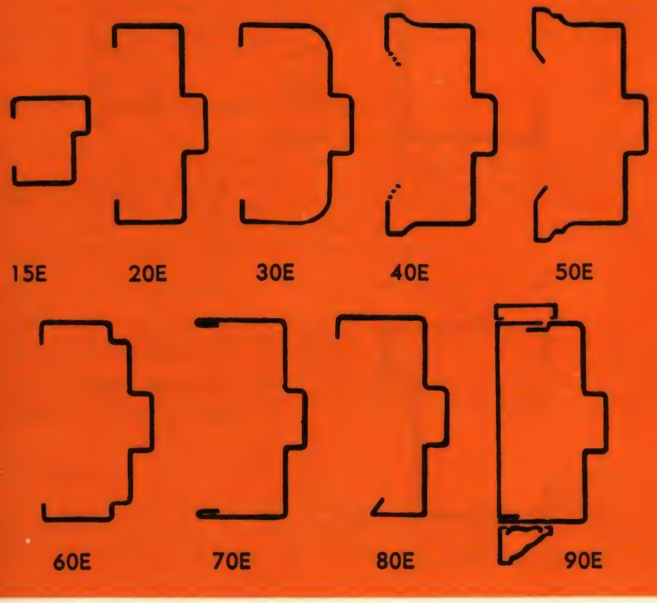
**hardware**—All label Kalamein doors shall be mortised, reinforced, drilled and tapped for mortise template type hardware at the factory. All non-label Kalamein doors to be prepared for hardware in the field. All finish hardware to be applied in the field.

**finish**—Doors are to be thoroughly cleaned of all oil, grease and other impurities. Each coat of primer to be baked on finish.

**underwriters' label service**—Kalamein doors can be furnished with labels of Underwriters' Laboratories, Inc. (Table on page 4).

## pressed steel frames

typical frame sections



### specifications

Frames to be manufactured of No. 16 U. S. Standard gauge (No. 18, 14 or 12 gauge if specified) prime new billet pickled steel sheet. Unit type welded construction to be used throughout with corners mitered, welded, and ground smooth on the outside. Profiles to be press brake formed. Removable steel spreaders are to be welded to bottom of frame to insure proper alignment.

**hardware**—Reinforcements, drilled and tapped, to be provided for all mortise template type hardware such as lock strike, latch strike, flush bolt strikes and hinges. Steel plaster guards to be spot welded over such reinforcing plates.

Suitable reinforcement will be applied inside frames at the factory for surface applied hardware, but no drilling and tapping. No hardware of any type to be applied at the factory.

Wall anchors and floor clips to be provided of a suitable type to fit job conditions.

**finish**—Frames are processed through a power spray washer that produces a rust preventative phosphatized surface to which paint bonds with exceptitonal adhesiveness. Each frame will have at least one coat of baked on primer.

# STANDARD DOORS & FRAMES

## advantages

American STANDARD Hollow Metal Doors and Pressed Steel Frames are always available from our stock in the full range of sizes shown below—for either indoor or outdoor use. STANDARD doors and frames are of the same high quality as engineered doors and frames.

**economy**—Through mass production, we are able to produce engineered quality at a considerably reduced price.

**fast delivery**—No waiting for special design or special construction; your order is ready to ship anytime. Easy installation. All mortising, drilling, tapping, and prime painting is completed at the factory. The builder merely sets the frame, attaches hardware and hangs door.

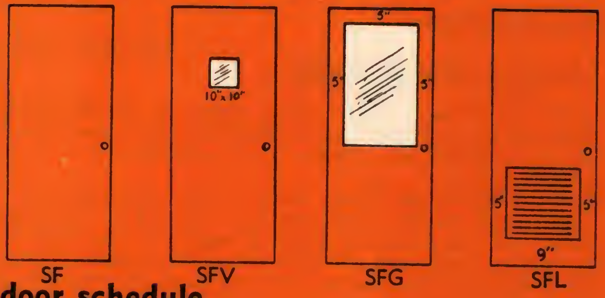
**quiet**—Insulates against noise.

**fire safe**—All steel—nothing to burn.

**low maintenance cost**—No warping, cracking, shrinking, swelling or splintering; American Standard doors are practically free of maintenance.

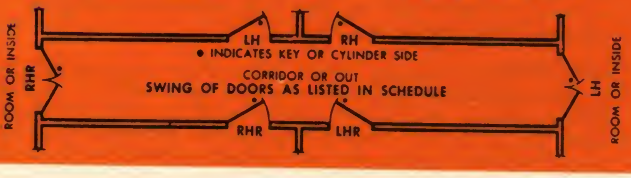
**permanent**—All-welded steel construction provides maximum strength, rigidity and durability.

## standard door types and sizes



## door schedule

| stock types | stock sizes single | stock sizes pair |
|---|---|---|
| SF | | |
| SFG | | |
| SFG2 | 2'-6" x 6'-8" | 5'-0" x 6'-8" |
| SFG3 | 2'-8" x 6'-8" | 5'-4" x 6'-8" |
| SFG4 | 2'-8" x 7'-0" | 5'-4" x 7'-0" |
| SFG6 | 3'-0" x 6'-8" | 6'-0" x 6'-8" |
| SFG8 | 3'-0" x 7'-0" | 6'-0" x 7'-0" |
| SFV | 3'-4" x 7'-0" | 6'-8" x 7'-0" |
| SFL | | |



• INDICATES KEY OR CYLINDER SIDE

SWING OF DOORS AS LISTED IN SCHEDULE

## Underwriters' Labeled Doors and Frames

| LABEL CLASS | LOCATION | MAXIMUM SIZE | MAXIMUM GLASS (SQ. INCHES) |
|---|---|---|---|
| (3 HR) A | FIREWALL | SGL. 4'-0"x8'-0"<br>PR 8'-0"x8'-0" | NONE |
| (1½ HR) B | STAIR WELL | SAME | 100 PER OPENING |
| ¾ HR) C | CORRIDOR OR ROOM PARTITION | SAME | 1296 PER LIGHT |
| (1½ HR) D | EXTERIOR WALL | SAME | NONE |
| (¾ HR) E | EXTERIOR FIRE ESCAPE | SAME | 720 PER LIGHT |

### NOTES

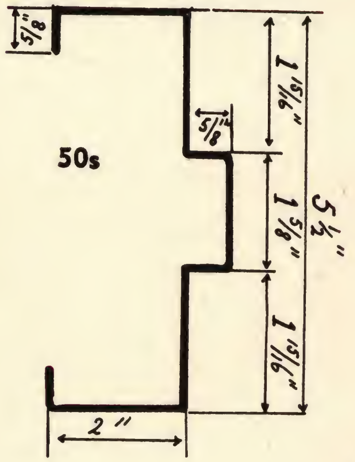
**FRAMES** -(1) 4" minimum jamb depth, 1¼" min. trim.
(2) Approved adjustable anchors only.
(3) **No labels permissable on frames with the following:** Transoms, Mullions, Rough Bucks, Bolts and Shields, Wood Stud Anchors and Steel Stud Anchors.

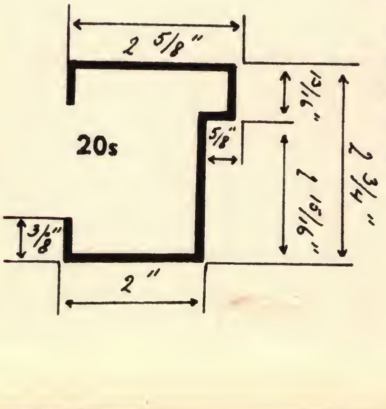
**DOORS** (HOLLOW METAL AND KALAMEIN)
(1) 18 Ga. minimum (Hollow Metal).
(2) 1¾" and 2" thickness (Hollow Metal).
(3) 1¾" thickness (Kalamein).
(4) Insulation as approved by Underwriters'.

**HARDWARE** (1) 4½" minimum butt size

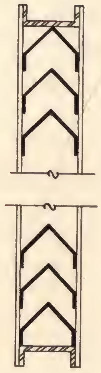
(2) All openings must have locks or latches (Deadlocks not permissable).

## frame sections





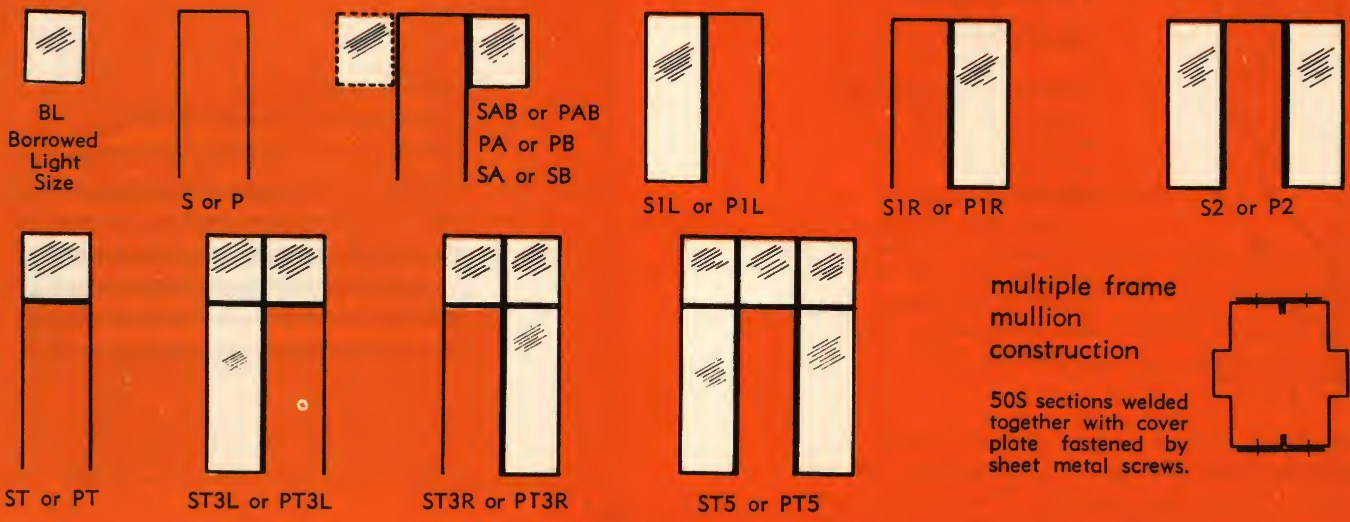
### door louver



Louvers are available for each size door, and can be furnished on special order for doors of any type. Other types of Louvers (see page 7) are available on special order.

## standard (stock) frame types

Multiple Light Frames (welded construction) available in same sizes shown in door schedule (page 4, column 2). All Transoms have 2'0" glass opening. Sidelights have same opening width as doors used in frames. Additional sidelghts can be furnished for each of above types.



multiple frame mullion construction

50S sections welded together with cover plate fastened by sheet metal screws.

### legend

A & B—same as BL (borrowed light)
BL—borrowed light
P —pair
L—left
R—right
S—single opening
T—transom
NUMERALS indicate number of glass openings.

## specifications

Furnish and install Hollow Metal Doors and Frames as manufactured by American Metal Works, Inc. of flush type construction as indicated on drawings and specifications.

### standard flush type doors: 1¾" thick

Door faces to be constructed of two formed steel sheets of not less than No. 18 U. S. Standard gauge new billet prime commercial steel, cold rolled and stretcher leveled. Doors to be rigidly reinforced inside with continuous vertical stiffeners spot welded in position and located on not to exceed 6" centers throughout. Both edges of doors to be joined and reinforced the full height by steel channels or flat bars placed immediately inside of and welded to the door faces. Top and bottom of door to be reinforced horizontally by steel channels running the full width of door. Inside voids of door to be filled with suitable sound deadening insulation.

### standard pressed steel frames

Frames to be manufactured of No. 16 U. S. Standard gauge (No. 14 gauge if specified) prime new billet pickled steel sheet. Unit type welded construction to be used throughout with corners mitered, welded, and ground smooth on the outside. Profiles to be press brake formed. Removable steel spreaders are to be welded to bottom of frame to insure proper alignment.

### finish

Doors are thoroughly cleaned of all oil, grease and other impurities. Each coat of primer to be baked on finish. Frames to be processed through a power spray washer to thoroughly clean and provide phosphatized surface for rust inhibiting paint bond. Primer to be baked on.

### hardware

All Standard Doors are carried in stock cut-out, reinforced, drilled, and tapped for 4½" regular weight template butts and heavy duty cylindrical lock (Type "C" hardware). Standard Frames are carried in stock cut-out, reinforced, drilled and tapped for 4½" regular weight template butts and either heavy duty cylindrical lock strike (Type "C") or mortise lock strike (Type "A"). Standard Doors cut-out for type "A" hardware are available on special order only. All doors are reinforced for closers and closer brackets.

Steel plaster guards are spot welded over reinforcing plates.

Suitable reinforcements on frames are provided for surface applied hardware if specified. Drilling and tapping to be done in the field. All hardware to be applied in the field.

### Standard stock engineered door hinges

Hinges for Standard Engineered Doors and Frames are full mortised 4-1/2" x 4-1/2" template butts, 1-1/2 pair per frame. Plain hinges are available, either prime coat steel, or U. S. 10 dull bronze.

Ball Bearing butts available in U. S. 10 dull bronze finish, only.

### type "C" hardware

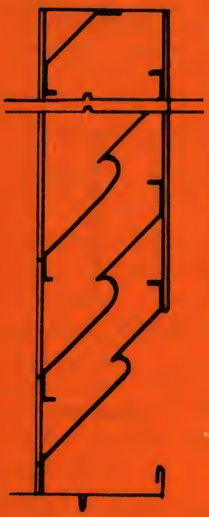
Our standard stock cylindrical lock is the Lockwood "H"-100 series. Alternates which will fit standard cutouts are Schlage "C" & "D" series, Corbin 400 series, Russwin 400 series, Yale 5400 series. All standard doors have cutout for type "C" hardware.

LOCK FRONT—2¼" x 1⅛"; beveled ⅛" in 2"; thickness 5/32"; bore for latch case 1" diameter. BACK SET—2¾"; cylinder hole 2⅛" diameter. STRIKE—2¾" x 1⅛". LIP OF STRIKE—1½" high, located at center line of strike.

### type "A" hardware (special order)

On special order, only, Standard doors and frames will be prepared for type "A" hardware, with cutouts to fit heavy mortise locksets and latches. Standard mortise locks are Sargent 7700 series, Lockwood 5100 series, Yale 8000 series, Corbin 7300, 7500, 7700, 7900 series, Russwin 2000 series. Standard doors for type "A" hardware will be prepared for cylinder outside, thumb turn inside, unless otherwise specified.

# FIXED LOUVERS



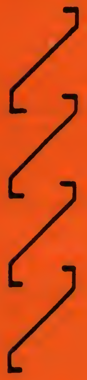
## HOAL'S LEAKPROOF LOUVERS

- GUARANTEED STORMPROOF
- HURRICANE TESTED
- MAXIMUM VENTILATION
- ECONOMICAL
- STRONG—LIGHTWEIGHT
- 4 BASIC ROOF DESIGNS
- 7 BASIC WALL DESIGNS
- MADE IN ANY SIZE
- CHOICE OF MATERIALS
- SPECIAL DESIGN, ON ORDER
- PROMPT DELIVERY

This famous, and widely copied, louver was designed and patented by American Metal Works. When you specify "American", you get the original Hoal's Leakproof Louver, produced by American for more than thirty-five years. Their long life, and freedom from maintenance, make Hoal's Leakproof Louvers most economical.

### specifications:

Furnish and install Hoal's leakproof louver ventilators, of the size and type indicated, in all openings where indicated in drawings. Louver frames are to be constructed in such a manner as to insure a water-tight seal between the frames and the wall (or roof). Louvers are to be manufactured by American Metal Works, Inc., New Orleans, Louisiana.



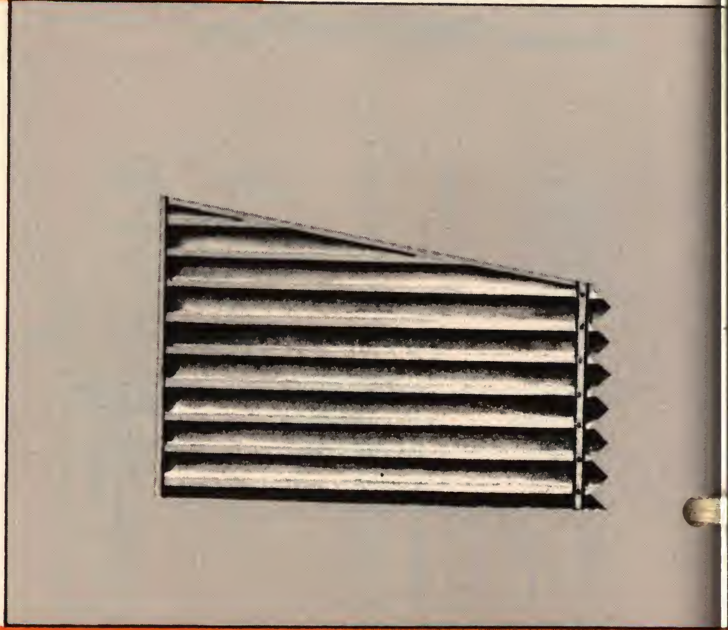
## STANDARD STRAIGHT-BLADE LOUVERS

This standard design is sometimes used because of the extremely free movement of air it admits through the blades, which can be placed on 30-degree or 45-degree angle. Straight-blade louvers are available in all type of metals.

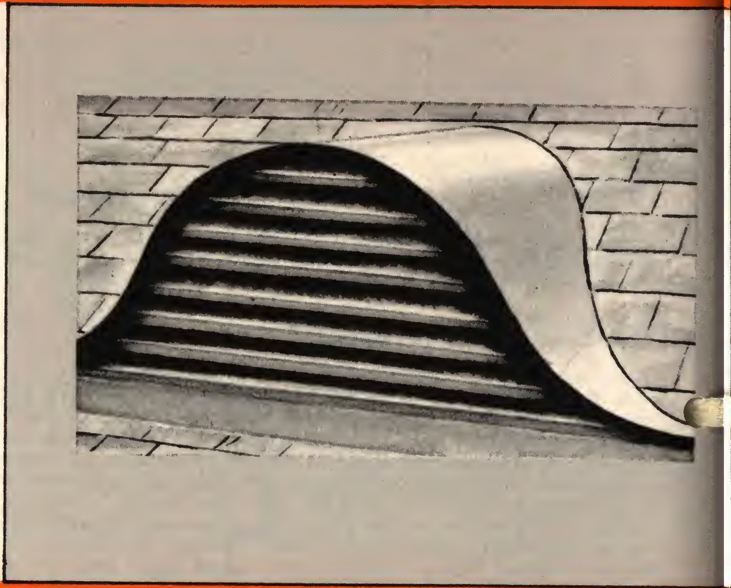
### specifications

Furnish and install Straight Blade Louvers, of the size and type indicated, in all openings where indicated in drawings. Louver frames are to be constructed in such a manner as to insure a water-tight seal between frame and the wall (or roof). Louvers are to be manufactured by American Metal Works, Inc., New Orleans, La.

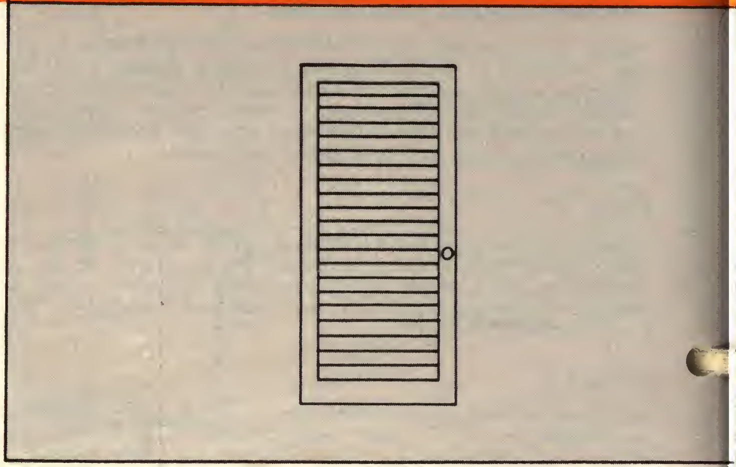
**wall**

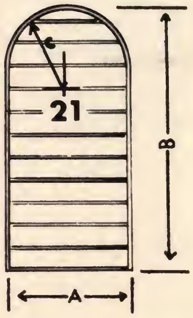


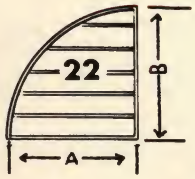
**roof**

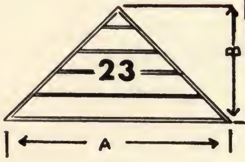


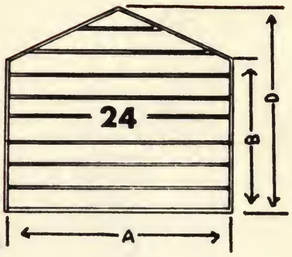
**door**

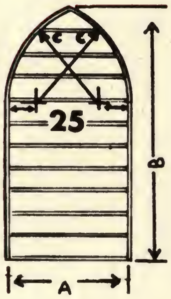


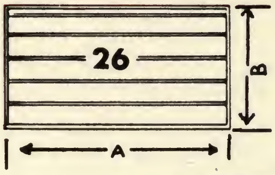


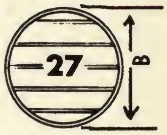












## choice of materials (wall and roof louvers):

WALL LOUVERS: GALVANIZED IRON, normally 26-gauge, but available up to 12-gauge. COPPER, normally 16-ounce, but available up to 20 ounces. ALUMINUM, normally 20-gauge, but available up to 12-gauge. Stainless steel, normally 26-gauge. Any other suitable metal on special order.

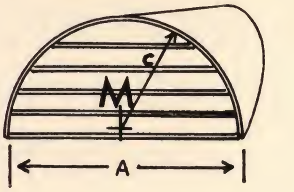
ROOF LOUVERS: 26-Gauge GALVANIZED IRON: COPPER, 16-oz. copper or ALUMINUM, 20 gauge.

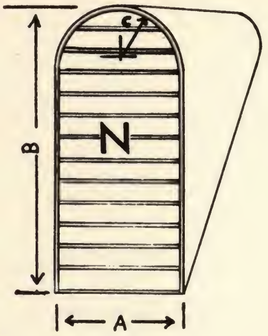
VERTICAL STIFFENING CHANNELS are added to all louvers wider than 3'-6" to assure greater rigidity. Screens and closing flaps are available for all louvers on special order.

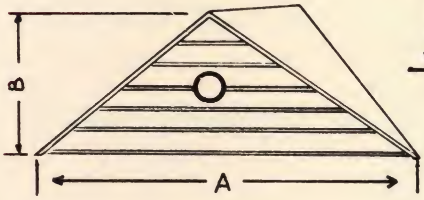
DELIVERY—Hoal's Leakproof Roof Louvers delivered promptly from stock. Wall Louvers made to your specificatins immediately upon receipt of your order.

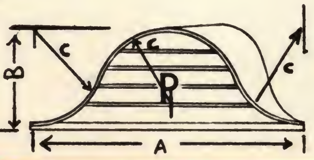
## how to order

Always specify type (Hoal's or Straight-Blade); state shape wanted (by number) specify material; give all dimensions, as indicated, above for shape you need.



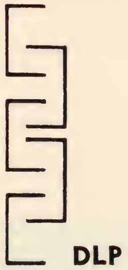


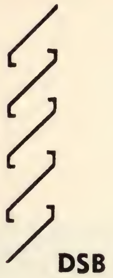


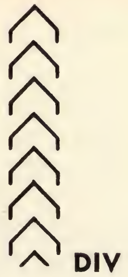


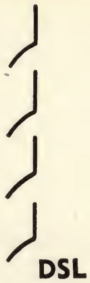
### DIMENSION SCHEDULE OF STOCK SIZES

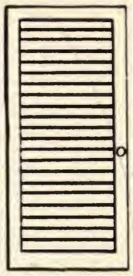
| Size | Dimensions "A" | Dimensions "B" | Dimensions "C" | Approx. Ship. Wt., Crated | Net Free Area |
|---|---|---|---|---|---|
| **Design "M"** | | | | | |
| M-1 | 2'-6" | 1'-3" | ------------ | 50 | 74 sq. in. |
| M-2 | 3'-0" | 1'-6" | ------------ | 62 | 122 sq. in. |
| M-3 | 3'-6" | 1'-9" | ------------ | 74 | 180 sq. in. |
| M-4 | 4'-0" | 2'-0" | ------------ | 88 | 246 sq. in. |
| **Design "N"** | | | | | |
| N-5 | 1'-6" | 2'-3" | 9" | 70 | 92 sq. in. |
| N-6 | 1'-10" | 2'-9" | 11" | 98 | 200 sq. in. |
| N-7 | 2'-2" | 3'-3" | 1'-1" | 123 | 254 sq. in. |
| N-8 | 2'-6" | 3'-9" | 1'-3" | 150 | 355 sq. in. |
| **Design "O"** | | | | | |
| O- 9 | 3'-8" | 1'-2⅝" | ------------ | 45 | 57 sq. in. |
| O-10 | 4'-4" | 1'-5⅜" | ------------ | 55 | 100 sq. in. |
| O-11 | 5'-0" | 1'-8" | ------------ | 65 | 128 sq. in. |
| O-12 | 5'-8" | 1'10⅝" | ------------ | 75 | 192 sq. in. |
| **Design "P"** | | | | | |
| P-13 | 4'-0" | 1'-4" | 1'-1" | 60 | 75 sq. in. |
| P-14 | 5'-0" | 1'-8" | 1'-4¼" | 75 | 152 sq. in. |
| P-15 | 6'-0" | 1'-11" | 1'-8" | 90 | 220 sq. in. |
| P-16 | 7'-0" | 2'-4" | 1'-10¾" | 110 | 315 sq. in. |

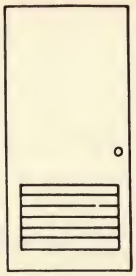

DLP

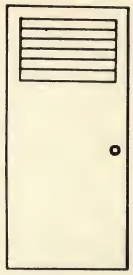

DSB


DIV


DSL







## louver styles

Door Louvers are made to fit standard or special openings, and are available in any of the four styles shown in section below.

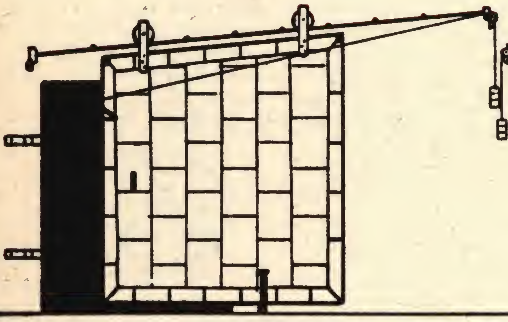
Door Louvers are available for all standard openings, also in special sizes and materials on special order. Material is 20-gauge cold-rolled black steel, or equivalent.

## specifications:

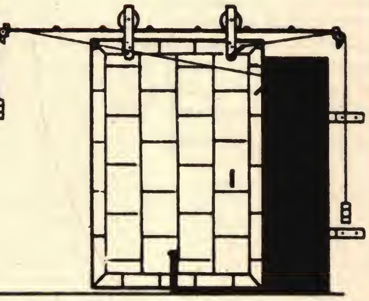
Furnish and install Door Louvers, of the size and type indicated, in all openings where specified on drawings. Louvers are to be manufactured by American Metal Works, Inc., New Orleans, La.

# TIN-CLAD FIRE DOORS

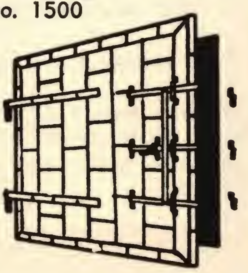
inclined sliding
no. 700



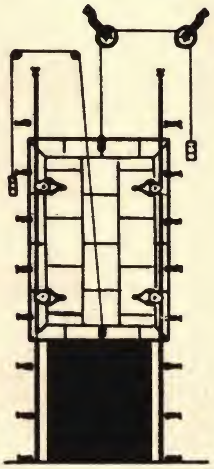
level sliding
no. 800



swinging
no. 1500



vertical
no. 1000



## specifications

Tin-Clad Fire Doors to be constructed in accordance with the requirements of Underwriters' Laboratories, Inc. 3 hour, Class "A," 3-ply doors will be 2⅝" thick, and manufactured by American. 1½ hour, Class "B" or "D," 2-ply doors will be 1⅞" thick. 1¾ hour, Class "C" or "E," 2-ply doors will be 1⅞" thick. Cores to be constructed of properly seasoned and kiln-dried Western red cedar, white pine, fir or other nonresinous wood. Plys of core to alternate in direction with outer plys laid vertical on three-ply doors—all plys to be tongued and grooved. The core to be securely fastened together by clinch nails spaced on maximum of 8" centers. Metal covering of door to be 30 gauge galvanized steel (IC-20-pound terne plate on special order) fastened flat to core by lock seams and nails.

Hardware to be automatic closing type with all metal parts constructed of steel or cast malleable iron.

## PERFORMANCE

American Metal Works has extreme pride in the quality of products placed in the construction field. For better than 55 years our metal products have been shipped over the entire United States, Central and South America. The ability to keep abreast of ever changing techniques in design and equipment in our engineering and production departments has enabled our products to remain the best afforded in our industry.

## recent American installations

**ALABAMA**
Mobile ---- Buildings & Utilities, Bates Field
**COLORADO**
Colorado Springs, Northeast Senior High School
**FLORIDA**
Okeechobee -- Okeechobee Independent School
**GEORGIA**
Atlanta ------------- State Office Building
**ILLINOIS**
Metropolis ------------- Feed Mill Building, Allied Chemical & Dye Co.
**INDIANA**
New Albany ------ Trinity Methodist Church
**IOWA**
Council Bluffs -- United States Army Reserve Training Center
**KANSAS**
Topeka ------------- Men's Residence Hall, Washburn University
**KENTUCKY**
Owensboro ----- Daviess County High School
**LOUISIANA**
New Orleans -------- Civic Center Buildings
**MINNESOTA**
Mound -- Elizabeth Gardner Elementary School
**MISSISSIPPI**
Greenville --- United States Post Office Bldg.
**MISSOURI**
St. Louis -------- Garage and Work Center, Southwestern Bell Telephone & Telegraph Co.
**MONTANA**
Butte ---------- Silver Bow County Hospital
**NEBRASKA**
Omaha -------------- Horace Mann School
**NEW MEXICO**
Albuquerque ------- Student Union Building, University of New Mexico
**NORTH CAROLINA**
Charlotte ---------- Phase V — Nike Plant
**NORTH DAKOTA**
Minot -- Operations Air Control & Warning, Minot A.F.B.
**OKLAHOMA**
Oklahoma City ----- Hospital, Tinker A.F.B.
**SOUTH CAROLINA**
Union -------------------------- Dial Office Southern Bell Telephone & Telegraph Co.
**SOUTH DAKOTA**
Spearfish -- Black Hills Teachers College Dorm.
**TENNESSEE**
Memphis --- Additions to St. Joseph Hospital
**TEXAS**
Austin -------------- State Office Building
**WISCONSIN**
Milwaukee -------------- Llewellyn Library
**WYOMING**
Thermopolis ----------- Hot Springs County Memorial Hospital

**doors**
**frames**
**louvers**

American **METAL WORKS, INC.**
P. O. Box 7027 New Orleans 19, La.

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